

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-14 (cancelled)

**Claim 15 (currently amended):** A Voice/Video over Internet Protocol (VoIP) alarm apparatus for detecting an intrusion by an intruder into a ~~residential, commercial or industrial~~ premise and subsequently establishing ~~an audio~~ a VoIP call to a remote device, the VoIP alarm apparatus comprising:

- a) a sensor for detecting the intruder;
- b) a peripheral device that has a first connection to the sensor, the peripheral device having a first processor, a first memory and a microphone, the first connection adapted to the first processor, the microphone adapted to the first processor, the microphone converts sound energy in the physical locality of the sensor to audio information suitable for the first processor, the first processor runs a first control algorithm, the first control algorithm being stored in the first memory;
- c) a system control module that has a second connection to the peripheral device, the system control module having a second processor and a second memory, the second connection adapted to the second processor and to the first processor, the second processor runs a second control algorithm that includes a VoIP call processing algorithm, the second control algorithm being stored in the second memory;
- d) a modem that has a third connection to the system control module, the modem provides an Internet connection;

the sensor detects the intruder and signals the peripheral device through the first connection, the peripheral device subsequently signals the system control module through the second connection, the system control module subsequently establishes an audio VoIP call through the third connection and through the modem to a remote device accessible through the Internet connection, the audio from the microphone of the peripheral device is sent to the remote device.

Claim 16 (cancelled)

Claim 17 (previously presented): The VoIP alarm apparatus of claim 15, wherein the peripheral device further comprises a video camera, the video camera adapted to the first processor, the video camera generates images of the physical locality of the sensor and transfers these images to the first processor, the first processor transfers the images to the system control module, the system control module transfers these images to the remote device through the VoIP call.

Claim 18 (previously presented): The VoIP alarm apparatus of claim 15, wherein the first control algorithm includes a VoIP call processing algorithm.

Claim 19 (currently amended): The VoIP alarm apparatus of claim 15, wherein the remote device is attached to at least one of the Internet, [[or]] an internet, [[or]] a public switched telephone network and[[or]] a cellular network.

Claim 20 (cancelled)

Claim 21 (currently amended): The VoIP alarm apparatus of claim 15, wherein the peripheral device further comprises a speaker, the speaker being adapted to the first processor, ~~the speaker converts audio information from the first processor into sound energy in the physical locality of~~

~~the sensor.~~

Claim 22 (currently amended): The VoIP alarm apparatus of claim ~~[[21]]~~15, wherein the peripheral device further comprises:

~~[[a]] a keypad for user input, the keypad is adapted to the first processor; and~~

~~[[b]] a display for prompting a user with menus and status information, the display is adapted to the first processor[[;]]~~

~~the keypad and display providing intercom functionality.~~

Claim 23 (currently amended): The VoIP alarm apparatus of claim ~~[[21]]~~15, wherein the peripheral device further comprises a doorbell button.

Claim 24 (currently amended): The VoIP alarm apparatus of claim 15, wherein the modem ~~[[is]] comprises at least one of a cable modem, [[or]] a GPRS or CDMA cellular modem, [[or]] and a Digital Subscriber Line modem such as an Asymmetric DSL modem, a High speed DSL modem, a Very high speed DSL modem, or DSL Lite modem.~~

Claim 25 (previously presented): The VoIP alarm apparatus of claim 15, wherein the system control module is an IBM compatible personal computer.

Claim 26 (cancelled)

Claim 27 (currently amended): The VoIP alarm apparatus of claim 15, wherein the second connection between the system control module and the peripheral device ~~[[is]]~~ comprises a Bluetooth™ connection.

Claim 28 (**currently amended**): The VoIP alarm apparatus of claim 15, wherein the second connection between the system control module and the peripheral device ~~[[is]]~~ comprises at least one of a wireless Ethernet connection ~~[[or]]~~ and a wired Ethernet connection.

Claim 29 (**currently amended**): The VoIP alarm apparatus of claim 15, wherein the remote device is one of an IP enabled telephone, ~~[[or]]~~ a cellular phone, ~~[[or]]~~ a computer, ~~[[or]]~~ a POTS telephone, ~~or a cordless phone, or a multimedia PC, or a PDA,~~ ~~[[or]]~~ a pager, or a fax machine.

Claim 30 (**previously presented**): The VoIP alarm apparatus of claim ~~[[17]]~~15, wherein the second control algorithm further comprises a conferencing bridge algorithm, the conferencing bridge algorithm providing a VoIP ~~audio and/or video~~ conference between the peripheral device and a plurality of remote devices.

Claim 31 (**cancelled**)

Claim 32 (**currently amended**): The VoIP alarm apparatus of claim 15, wherein the VoIP call processing algorithm ~~includes a~~ comprises means for at least one of the Session Initiation Protocol and the H.323 protocol ~~(SIP) software stack, the SIP stack used for VoIP call signalling between the system control module and the remote device.~~

Claim 33-34 (**cancelled**)

Claim 35 (**currently amended**): The VoIP alarm apparatus of claim ~~[[32]]~~15, wherein the VoIP call is an Instant Message.

Claim 36-38 (**cancelled**)

**Claim 39 (new):** A premise alarm apparatus comprising:

a sensor means for detecting an alarm event; and

a control means for responding to the alarm event, the control means having VoIP call signalling means for establishing and controlling a VoIP call to a remote device, the control means being responsive to the sensor means, wherein media is delivered from the control means over the VoIP call to the remote device.

**Claim 40 (new):** The premise alarm apparatus as claimed in claim 39, wherein the apparatus further includes a media means for providing the media, said media means being connected to the control means.

**Claim 41 (new):** The premise alarm apparatus as claimed in claim 39, wherein the control means further includes means for receiving presence information of a person, said person being notified of the alarm event.

**Claim 42 (new):** A method of responding to an alarm event in a premise alarm system at a premise, the method comprising the steps of:

detecting the alarm event;

establishing a VoIP call with a remote device using VoIP call signalling; and

sending media over the VoIP call to the remote device.

**Claim 43 (new):** The method of responding to an alarm event as claimed in claim 42, wherein the method further comprises the step of receiving presence information of a person to be notified of the alarm event, the presence information indicating the remote device to establish the VoIP call with during the alarm event.

**Claim 44 (new):** A computer program for a premise alarm system stored on a computer readable medium, the computer program comprising instructions for:

detecting an alarm event in the premise alarm system at a premise;

establishing a VoIP call with a remote device using VoIP call signalling; and

sending media over the VoIP call to the remote device.

**Claim 45 (new):** The computer program as claimed in claim 44, wherein the computer program further includes instructions for receiving presence information of a person to be notified of the alarm event, the presence information indicating the remote device to establish a VoIP call with during the alarm event.

**Claim 46 (new):** In combination, a VoIP gateway and a premise alarm apparatus, the premise alarm apparatus comprising:

a sensor means for detecting an alarm event; and

a control means for responding to the alarm event, the control means having VoIP call signalling means for establishing and controlling a VoIP call to a remote device, the control means being responsive to the sensor means, wherein media is delivered from the control means over the VoIP call to the remote device, wherein the VoIP call is routed through the VoIP gateway.

**Claim 47 (new):** A premise alarm apparatus comprising:

a sensor means for detecting an alarm event; and

a control means for responding to the alarm event, the control means comprising:

means for monitoring the sensor means;

means for notifying a remote device of the alarm event; and

means for receiving presence information of a person, the presence information indicating the remote device to notify during the alarm event.